In the Claims

Please cancel claims 1-36 in the application without prejudice and please enter the following new claims 37-48.

- 37. (New) A method of conditioning air for an enclosure by transferring heat and moisture between a first stream of outside ambient air and a second stream of enclosure return air comprising:
 - disposing a water-conducting membrane between said first and second stream, said water-conducting membrane having at least two opposed surfaces and comprising an at least partially sulfonated random hydrocarbon copolymer; and contacting the first and second gas stream with an opposite surface of said water-conducting membrane, whereby heat and moisture are transferred between the first stream of outside ambient air and the second stream of enclosure return air.
- 38. (New) The method of claim 37, wherein said water-conducting membrane comprising an at least partially sulfonated random hydrocarbon copolymer comprises at least one arylvinyl monomer.
- 39. (New) The method of claim 38, wherein said at least one arylvinyl monomer is at least partially sulfonated.
- 40. (New) The method of claim 37, wherein said water-conducting membrane comprising an at least partially sulfonated random hydrocarbon copolymer comprises at least one olefin monomer.
- 41. (New) A heat and moisture exchanger core for transferring heat and moisture between a first stream of outside ambient air and a second stream of enclosure return air comprising

a water-conducting membrane disposed between the first stream of outside ambient air and the second stream of enclosure return air, said water-conducting membrane comprising an at least partially sulfonated random hydrocarbon copolymer;

whereby heat and moisture are transferred between the first stream of outside ambient air and the second stream of enclosure return air.

- 42. (New) The heat and moisture exchanger core of claim 41, wherein said water-conducting membrane comprising an at least partially sulfonated random hydrocarbon copolymer comprises at least one arylvinyl monomer.
- 43. (New) The heat and moisture exchanger core of claim 42, wherein said at least one arylvinyl monomer is at least partially sulfonated.
- 44. (New) The heat and moisture exchanger core of claim 41, wherein said water-conducting membrane comprising an at least partially sulfonated random hydrocarbon copolymer comprises at least one olefin monomer.
- 45. (New) An apparatus for conditioning air for an enclosure comprising a heat and moisture exchanger core for transferring heat and moisture between a first stream of outside ambient air and a second stream of enclosure return air, said heat and moisture exchanger core comprising a water-conducting membrane disposed between a first stream of outside ambient air and a second stream of enclosure return air, said water-conducting membrane comprising an at least partially sulfonated random hydrocarbon copolymer;

whereby heat and moisture are transferred between the first stream of outside ambient air and the second stream of enclosure return air.

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- 46. (New) The apparatus for conditioning air for an enclosure comprising a heat and moisture exchanger core of claim 45, wherein said water-conducting membrane comprising an at least partially sulfonated random hydrocarbon copolymer comprises at least one arylvinyl monomer.
- 47. (New) The apparatus for conditioning air for an enclosure comprising a heat and moisture exchanger core of claim 46, wherein said at least one arylvinyl monomer is at least partially sulfonated.
- 48. (New) The apparatus for conditioning air for an enclosure comprising a heat and moisture exchanger core of claim 45, wherein said water-conducting membrane comprising an at least partially sulfonated random hydrocarbon copolymer comprises at least one olefin monomer.